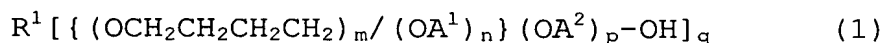


## ABSTRACT

The present invention provides

a lubricant for water-based metal working oil

5 containing polyether (E) represented by the following  
general formula (1) and having an HLB of 6.1 to 16.0 and a  
weight-average molecular weight of 500 to 10,000



[in the formula,  $R^1$  denotes a residue such that at least  
10 one hydroxyl group is removed from a compound with a carbon  
number of 1 to 24 having 1 to 6 hydroxyl group(s);  $A^1$   
denotes an alkylene group with a carbon number of 2 to 4  
except a 1,4-butylene group;  $A^2$  denotes an alkylene group  
with a carbon number of 2 to 4;  $m$  denotes an integer of 1  
15 or more having an average of 1 to 120;  $n$  and  $p$  each denotes  
an integer of 0, 1 or more such that an average of  $(n+p)$  is  
1 to 200, and  $n$  and  $p$  are not simultaneously 0;  $q$  denotes  
an integer of 1 to 6; and  $\{(OCH_2CH_2CH_2CH_2)_m/(OA^1)_n\}$  in a case  
where  $n$  is an integer of 1 or more denotes a random bond],  
20 and water-based metal working oil containing said  
lubricant.

They are superior in lubricity to steel materials as  
well as, particularly, lubricity to soft metal such as  
aluminum, and excellent because of stability on dilution  
25 with water and non-separation property.

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